Spectroquant® Prove Spectrophotometers
Sophisticated analysis made simple

Our goal was to build the perfect tool for water analysis. One that unites the simplicity you want with the security you need, and durability you expect. Spectroquant® Prove delivers all these and more. It offers intuitive controls, and is pre-programmed for over 200 Spectroquant® test kits and methods to make analysis smoother than ever.

JUST PROVE it.

Long-life lamp with reference beam technology for brilliant durability and economy

Innovative ambient light measurement technology, patent pending

Smart touchscreen for simple navigation in 28 languages

Customize settings set turbidity correction, add dilution factors, or simultaneously display adsorption and concentration

Assign individualized measuring ranges to see if results are within limits

Use the USB or Ethernet ports to connect to your printer or LIMS for fast data transfer

Materials and design are built to last and resistant to most lab chemicals

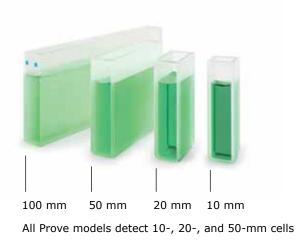A small beauty in your lab: 42 cm x 28 cm x 24 cm

Live ID bar codes on cell and reagent tests automatically transfer important data to the spectrophotometer:

- Method recognition
- Lot number
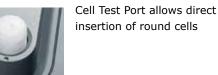- Expiry date
- Calibration update

Reagent tests include an AutoSelector for automatic test detection and result calculation

Cells in the test kits contain virtually all reagents necessary for the analysis

100 mm   50 mm   20 mm   10 mm

All Prove models detect 10-, 20-, and 50-mm cells

For even greater sensitivity, Prove 600 is also compatible with 100-mm cells

Cell Test Port allows direct insertion of round cells

Removable cell holder for easy cleaning in case of spills

choose your test

Choose our convenient cell tests or economical reagent tests

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Spectroquant® Prove Spectrophotometers

Three perfect models. Just choose.

Spectroquant® Prove 100
Ord. No. 1.73016.0001

For routine applications
Prove 100 is the best choice for those who primarily use our broad range of Spectroquant® test kits, or only perform Vis measurements. High quality and great value for money for your daily analyses.

Spectroquant® Prove 300
Ord. No. 1.73017.0001

For sensitive measurements
Thanks to its long-lasting xenon lamp, Prove 300 is ideal for more intensive use. What's more, it is capable of both UV and Vis measurements, so you have greater flexibility for more intricate analyses.

Spectroquant® Prove 600
Ord. No. 1.73018.0001

For complex analyses
Designed for high-end UV/Vis optics, and cells of up to 100-mm, Prove 600 packs great power into a compact size. Excellent resolution and sensitivity for use with test kits, complex kinetics or spectral measurements.

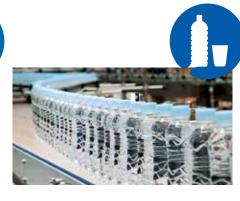| Specifications		Prove 100	Prove 300	Prove 600
Measuring technology	Spectrophotometer with reference beam technology	■	■	■
Wavelength range	Vis (320 – 1,100 nm)	■	■	■
	UV (190 – 320 nm)		■	■
Lamp type	Tungsten halogen lamp	■		
	Xenon flash lamp		■	■
Ambient light protection	Measurement with open shaft possible due to proprietary solution (patent pending)	■	■	■
Spectral bandwidth	4 nm	■	■	
	1.8 nm			■
Smart Screen display	Resistive touch screen	■	■	
	P-cap glass touch screen			■
Live ID system	2-D Bar-code recognition for cell tests and reagent tests	■	■	■
	Bar-code contains lot, expiry, and calibration data. Data stored with each measurement	■	■	■
Cell size	16-mm round cells, 10-, 20- and 50-mm rectangular cells with automatic recognition	■	■	■
	100-mm rectangular cells with automatic recognition			■
Cell holder	Removable for easy cleaning	■	■	■
Methods	Programmed methods of all Spectroquant® cell and reagent tests, 99 user defined methods, 20 profiles for kinetics and absorbance scans each	■	■	■
Applications	Free preprogrammed applications: Bromate, Brewery packages (MEBAK/EBC/ASBC methods), Sugar (ICUMSA), Oil (DOBI, olive oil)	■	■	■
AQA Prime	Individual settings for all methods in AQA 1 (instrument check) and AQA 2 mode (system check) and pipette check	■	■	■
Sample matrix check	Easy access through setting menu to perform instrument supported matrix check for each method	■	■	■
Software updates	Free method updates on our website	■	■	■
Languages	Navigation in 28 built-in languages	■	■	■
Communication interfaces	USB: 2 x USB-A (for printer, USB memory devices, keyboard or bar-code reader), 1 x USB-B; Ethernet: LAN connection	■	■	■

Application fields

Wastewater

Regular testing, and the use of cell test kits are common in wastewater analysis. Prove 100 is the perfect choice for these measurements. The Spectroquant® portfolio offers the broadest selection of COD tests. Just choose the measuring range that best suits your needs, and enjoy precise results.

Wastewater workflow
> Page 22

Drinking water & beverages

Analyzing drinking water and beverages usually involves reagent tests as they offer lower detection limits for parameters like manganese and sulfate. Prove 300 is ideal here as it allows UV/Vis analyses, and is programmed with free applications, like bromate and brewery tests.

Drinking water workflow
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Process water

Even low levels of impurities in process water can lead to damages, downtime, and costly repairs. To help you avoid these, we offer the most sensitive silicate and chloride tests with the lowest measuring ranges available. For even greater sensitivity, use the 100-mm cell in Prove 600.

Cooling & boiler water workflow
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just ask.

Service and support

We understand the importance of reliable instruments, and the complexities of documentation. That's why we offer a comprehensive service plan that takes care of both.

All Spectroquant® service plans offer the following benefits:
- **Performance check** with reference materials – certificate included
- **Factory-recommended maintenance** to prevent breakdowns
- **Telephone support hotline** connects you to our technical experts
- **Free software upgrades** to keep your instrument up to date
- **Reagent delivery program** for convenient, punctual supply of our high-quality test kits

Contact us today for your personalized Spectroquant® service plan:
www.merckmillipore.com/water-analytics-service

visit our e-shop

All our products for water, food and environmental analytics are available online – day or night. For further details and easy shopping, please visit **www.sigma-aldrich.com**